

## METHOD FOR COATING ON LASER-DIODE FACET

### ABSTRACT OF THE INVENTION

A method for coating the facet of a laser-diode comprises the following steps: inserting a space bar between adjacent laser-diode chips, wherein each laser-diode chip has a first electrode surface, a second electrode surface, a first resonance facet covering on a waveguide wire, a second resonance facet, and a resonance length, and the space bar has a first surface and a second surface, the first surface having a trench crisscrossed with the waveguide wire on both of its fringes to expose the partial waveguide wire of the laser-diode chip, the first surface of the space bar coupling to the first electrode surface of the laser-diode chip, and the second surface coupling to the second electrode surface of the laser-diode chip; and coating onto the first and second resonance facets of the laser-diode chip.